

Table 113. Energy Consumption Estimates by Source, Selected Years 1960-1997, Kansas

Year	Coal ^a	Natural Gas ^b	Petroleum											Nuclear Electric Power	Hydro-electric Power ^d		Net Interstate Flow of Electricity/Losses ^g	Total ^h
			Asphalt & Road Oil ^a	Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	Kerosene ^a	LPG ^a	Lubricants ^a	Motor Gasoline	Residual Fuel ^a	Other ^{a,c}	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million kWh	Biomass ^e	Other ^{a,f}	Million kWh	
1960	675	361	2,198	170	4,739	952	696	5,590	737	23,712	2,403	6,577	47,774	0	20	-	-4,181	-
1965	644	443	3,061	493	5,257	1,053	1,813	6,521	770	25,525	1,066	7,119	52,677	0	13	-	-3,746	-
1970	458	576	2,188	326	7,550	1,561	306	8,009	655	28,849	1,127	7,355	57,926	0	7	-	-5,106	-
1975	3,117	499	2,162	177	11,273	1,310	100	8,857	773	32,004	6,365	8,539	71,560	0	5	-	-5,045	-
1980	10,370	488	3,019	221	14,764	2,466	492	8,404	1,011	29,584	1,498	8,734	70,194	0	8	-	-9,085	-
1985	14,715	355	1,700	137	15,040	4,424	57	24,510	920	28,209	86	5,908	80,992	3,856	9	-	-13,553	-
1986	14,359	313	2,657	162	14,319	7,038	75	16,615	900	28,453	487	6,075	76,780	6,959	8	-	-20,105	-
1987	15,194	328	2,614	121	16,713	4,285	72	16,113	1,017	29,123	353	6,524	76,934	6,471	9	-	-21,902	-
1988	14,951	353	4,378	148	16,591	4,176	42	19,029	981	30,819	811	7,687	84,661	6,650	12	-	-20,333	-
1989	14,963	341	3,109	156	15,785	3,833	56	18,889	1,006	29,852	370	7,763	80,819	9,709	i NA	-	R -29,449	-
1990	15,175	353	3,875	136	16,561	3,701	27	15,565	1,035	28,626	232	7,870	77,630	7,874	NA	-	R -25,080	-
1991	14,881	371	3,721	124	15,714	3,296	24	13,293	926	28,041	128	6,069	71,336	5,859	NA	-	R -17,248	-
1992	14,227	343	3,715	142	15,154	4,164	33	16,816	944	27,821	180	6,695	75,664	8,491	NA	-	R -19,226	-
1993	17,386	392	3,635	151	16,268	3,617	36	8,269	962	28,480	373	5,658	67,448	7,900	NA	-	-28,905	-
1994	17,158	418	4,741	142	15,770	1,981	17	7,754	1,005	29,073	190	6,218	66,891	8,529	NA	-	R -30,102	-
1995	16,521	368	3,911	146	19,446	2,414	28	4,924	988	29,402	31	5,971	67,261	10,062	NA	-	R -29,759	-
1996	19,084	363	3,581	177	16,964	2,009	37	10,131	959	30,927	292	6,417	71,494	8,205	NA	-	R -33,855	-
1997	17,673	335	2,115	247	17,142	2,130	58	10,234	1,013	30,695	260	6,454	70,349	8,430	NA	-	-24,899	-
Trillion Btu																		
1960	15.7	373.7	14.6	0.9	27.6	5.1	3.9	22.4	4.5	124.6	15.1	39.5	258.1	0.0	0.2	R 3.9	0.0	-14.3 R 637.4
1965	15.3	440.8	20.3	2.5	30.6	5.7	10.3	26.2	4.7	134.1	6.7	42.7	283.7	0.0	0.1	R 3.4	0.0	-12.8 R 730.5
1970	10.7	574.5	14.5	1.6	44.0	8.6	1.7	30.3	4.0	151.5	7.1	43.9	307.2	0.0	0.1	R 3.7	0.0	-17.4 R 878.8
1975	62.3	490.7	14.3	0.9	65.7	7.2	0.6	32.9	4.7	168.1	40.0	51.0	385.4	0.0	(s)	R 5.8	0.0	-17.2 R 927.0
1980	191.6	482.0	20.0	1.1	86.0	13.8	2.8	30.9	6.1	155.4	9.4	52.0	377.5	0.0	0.1	R 10.9	0.0	-31.0 R 1,031.0
1985	259.5	354.8	11.3	0.7	87.6	24.8	0.3	88.3	5.6	148.2	0.5	35.3	402.7	41.7	0.1	R 10.1	(s)	-46.2 R 1,022.6
1986	251.7	308.0	17.6	0.8	83.4	39.7	0.4	60.5	5.5	149.5	3.1	36.7	397.2	75.1	0.1	R 13.4	(s)	-68.6 R 976.8
1987	267.4	343.2	17.3	0.6	97.4	24.1	0.4	59.0	6.2	153.0	2.2	38.8	398.9	69.7	0.1	R 12.3	(s)	-74.7 R 1,016.9
1988	269.3	348.0	29.1	0.7	96.6	23.4	0.2	69.5	5.9	161.9	5.1	45.7	438.2	71.4	0.1	R 12.8	(s)	-69.4 R 1,070.5
1989	266.5	338.6	20.6	0.8	91.9	21.5	0.3	69.6	6.1	156.8	2.3	45.8	415.8	104.1	R i 0.2	R i 12.9	R i 0.1	-100.5 R i 1,037.2
1990	272.6	352.6	25.7	0.7	96.5	20.7	0.2	56.4	6.3	150.4	1.5	46.4	404.7	84.1	0.2	R 9.2	R 0.1	-85.6 R 1,037.5
1991	268.7	373.2	24.7	0.6	91.5	18.3	0.1	48.0	5.6	147.3	0.8	36.3	373.4	62.9	0.2	R 9.5	R 0.1	R -58.8 R 1,028.8
1992	254.3	338.8	24.7	0.7	88.3	23.2	0.2	60.9	5.7	146.1	1.1	39.7	390.6	90.7	0.1	R 10.0	R 0.1	-65.6 R 1,018.6
1993	301.9	386.5	24.1	0.8	94.8	20.2	0.2	29.8	5.8	149.6	2.3	33.6	361.3	84.4	0.1	R 9.4	R 0.1	-98.6 R 1,044.6
1994	300.0	417.2	31.5	0.7	91.9	11.0	0.1	28.2	6.1	152.7	1.2	36.9	360.3	91.1	0.1	R 12.0	R 0.2	R -102.7 R 1,077.6
1995	289.6	369.1	26.0	0.7	113.3	13.7	0.2	17.8	6.0	154.4	0.2	35.5	367.8	107.2	0.1	R 12.8	R 0.2	R -101.5 R 1,044.9
1996	338.6	362.0	23.8	0.9	98.8	11.4	0.2	36.6	5.8	162.5	1.8	38.0	379.7	87.2	0.1	R 12.9	R 0.2	-115.5 R 1,065.1
1997	310.8	334.5	14.0	1.2	99.9	12.1	0.3	37.0	6.1	161.2	1.6	38.2	371.7	89.6	0.1	11.3	0.2	-85.0 1,033.1

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.

^e "Biomass" is wood, waste, and ethanol. Ethanol blended into motor gasoline is included in motor gasoline and total petroleum. It is also included in the biomass series to give complete biomass data, but it is counted only once in the energy total.

^f "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^g Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number

indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

^h From 1989, "Total" does not equal the sum of the columns. Ethanol (which is shown in the transportation sector table) is included in both motor gasoline and biomass data in this table but only once in the total. Net imports of electricity generated from nonrenewable energy sources (shown in appendix Table A8) is included in the total in this table but not in any other columns.

ⁱ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

kWh=kilowatthours. R=Revised data. -=Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 114. Residential Energy Consumption Estimates, Selected Years 1960-1997, Kansas

Year	Coal			Natural Gas ^b	Petroleum				Wood	Geothermal	Solar ^c	Electricity ^a	Million Kilowatthours	Net Energy	Million Kilowatthours	Electrical System Energy Losses ^d	
	Bituminous Coal and Lignite ^a	Anthracite ^a	Total		Distillate Fuel ^a	Kerosene ^a	LPG ^a	Total									
	Billion Cubic Feet				Thousand Barrels								Thousand Cords				
Year	Thousand Short Tons			Natural Gas ^b	Petroleum				Wood	Geothermal	Solar ^c	Electricity ^a	Million Kilowatthours	Net Energy	Million Kilowatthours	Electrical System Energy Losses ^d	Total
1960	22	0	22	73	53	303	3,447	3,804	R 157	—	—	2,360	—	5,869	—		
1965	6	0	6	87	50	1,285	3,991	5,327	R 102	—	—	3,251	—	7,762	—		
1970	4	0	4	97	53	116	4,825	4,994	R 80	—	—	5,348	—	12,960	—		
1975	0	0	0	98	96	60	4,563	4,719	R 93	—	—	5,695	—	13,736	—		
1980	2	0	2	85	150	5	2,083	2,237	R 526	—	—	7,189	—	17,481	—		
1985	(s)	0	(s)	78	65	27	1,469	1,561	R 501	—	—	8,195	—	19,252	—		
1986	(s)	0	(s)	71	24	18	1,208	1,251	R 487	—	—	8,346	—	19,198	—		
1987	(s)	0	(s)	70	21	19	1,285	1,325	R 436	—	—	8,617	—	19,689	—		
1988	(s)	(s)	(s)	76	30	20	1,435	1,485	R 453	—	—	9,121	—	20,620	—		
1989	2	0	2	76	32	18	1,453	1,502	R 470	—	—	8,898	—	R 19,992	—		
1990	(s)	0	(s)	71	24	11	1,182	1,218	317	—	—	9,515	—	R 20,811	—		
1991	(s)	(s)	(s)	75	23	10	1,305	1,338	334	—	—	9,933	—	R 21,624	—		
1992	(s)	0	(s)	72	29	13	1,079	1,121	352	—	—	8,873	—	R 18,953	—		
1993	8	0	8	85	27	20	1,092	1,139	R 293	—	—	9,986	—	21,099	—		
1994	11	0	11	74	27	8	1,054	1,089	287	—	—	10,131	—	R 21,140	—		
1995	13	0	13	76	15	13	1,469	1,497	318	—	—	10,356	—	R 21,574	—		
1996	27	0	27	85	18	19	1,748	1,784	318	—	—	10,672	—	R 22,211	—		
1997	1	0	1	69	37	12	1,748	1,797	231	—	—	10,862	—	22,558	—		
Trillion Btu																	
1960	0.5	0.0	0.5	76.1	0.3	1.7	13.8	15.9	R 3.1	0.0	0.0	8.1	R 103.6	20.0	R 123.6		
1965	0.1	0.0	0.1	86.4	0.3	7.3	16.0	23.6	R 2.0	0.0	0.0	11.1	R 123.2	26.5	R 149.7		
1970	0.1	0.0	0.1	97.1	0.3	0.7	18.2	19.2	R 1.6	0.0	0.0	18.2	R 136.2	44.2	R 180.5		
1975	0.0	0.0	0.0	96.6	0.6	0.3	17.0	17.9	R 1.9	0.0	0.0	19.4	R 135.7	46.9	R 182.6		
1980	(s)	0.0	(s)	84.8	0.9	(s)	7.7	8.6	R 10.5	0.0	0.0	24.5	R 128.4	59.6	R 188.1		
1985	(s)	0.0	(s)	78.3	0.4	0.2	5.3	5.8	R 10.0	0.0	0.0	28.0	R 122.2	65.7	R 187.8		
1986	(s)	0.0	(s)	69.6	0.1	0.1	4.4	4.6	R 9.7	0.0	0.0	28.5	R 112.5	65.5	R 178.0		
1987	(s)	0.0	(s)	73.1	0.1	0.1	4.7	4.9	R 8.7	0.0	0.0	29.4	R 116.1	67.2	R 183.3		
1988	(s)	(s)	(s)	75.3	0.2	0.1	5.2	5.5	R 9.1	0.0	0.0	31.1	R 121.0	70.4	R 191.4		
1989	(s)	0.0	(s)	75.5	0.2	0.1	5.3	5.6	R 9.4	e (s)	R e (s)	30.4	R e 121.0	68.2	R e 189.2		
1990	(s)	0.0	(s)	71.3	0.1	0.1	4.3	4.5	6.3	(s)	(s)	32.5	R 114.7	71.0	185.7		
1991	(s)	(s)	(s)	75.7	0.1	0.1	4.7	4.9	6.7	(s)	(s)	33.9	121.2	73.8	195.0		
1992	(s)	0.0	(s)	70.6	0.2	0.1	3.9	4.2	7.0	(s)	(s)	30.3	R 112.2	64.7	176.8		
1993	0.2	0.0	0.2	83.9	0.2	0.1	3.9	4.2	R 5.9	(s)	(s)	34.1	128.2	72.0	200.2		
1994	0.3	0.0	0.3	74.1	0.2	(s)	3.8	4.0	5.7	(s)	(s)	34.6	R 118.8	72.1	R 190.9		
1995	0.3	0.0	0.3	76.1	0.1	0.1	5.3	5.5	6.4	(s)	(s)	35.3	123.7	73.6	197.3		
1996	0.7	0.0	0.7	85.2	0.1	0.1	6.3	6.5	6.4	(s)	(s)	36.4	135.2	75.8	R 211.0		
1997	(s)	0.0	(s)	69.5	0.2	0.1	6.3	6.6	4.6	(s)	(s)	37.1	117.9	77.0	194.9		

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Includes small amounts of solar energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 115. Commercial Energy Consumption Estimates, Selected Years 1960-1997, Kansas

Year	Coal			Natural Gas ^b	Petroleum						Wood	Electricity ^a	Geothermal	Million Kilowatthours	Net Energy	Million Kilowatthours	Total ^d	
	Bituminous Coal and Lignite ^a	Anthracite ^a	Total		Distillate Fuel ^a	Kerosene ^a	LPG ^a	Motor Gasoline	Residual Fuel ^a	Total								
	Billion Cubic Feet				Thousand Barrels													
Year	Thousand Short Tons	Thousand Short Tons	Billion Cubic Feet								Wood	Electricity ^a	Geothermal	Million Kilowatthours	Net Energy	Million Kilowatthours	Total ^d	
1960	40	0	40	41	115	87	608	179	47	1,036	R 3	-	1,727	-	4,296	-		
1965	11	0	11	38	109	367	704	204	19	1,403	R 2	-	2,597	-	6,200	-		
1970	7	0	7	53	115	33	851	215	34	1,249	R 2	-	3,967	-	9,614	-		
1975	0	0	0	52	209	17	805	268	36	1,335	R 2	-	5,614	-	13,542	-		
1980	3	0	3	59	360	10	368	279	0	1,016	R 13	-	6,806	-	16,550	-		
1985	1	0	1	57	698	10	259	177	0	1,145	NA	-	8,174	-	19,205	-		
1986	1	0	1	56	342	9	213	174	9	747	NA	-	8,361	-	19,232	-		
1987	1	0	1	54	271	15	227	190	(s)	703	NA	-	8,547	-	19,529	-		
1988	(s)	(s)	(s)	61	385	10	253	167	1	815	NA	-	9,000	-	20,347	-		
1989	4	0	4	59	333	16	256	153	10	769	NA	-	9,127	-	R 20,507	-		
1990	(s)	0	(s)	56	283	6	209	162	27	687	NA	-	9,547	-	R 20,881	-		
1991	(s)	(s)	(s)	59	363	4	230	124	7	728	NA	-	9,935	-	R 21,628	-		
1992	(s)	0	(s)	54	502	4	190	109	22	827	NA	-	9,746	-	R 20,817	-		
1993	15	0	15	56	645	7	193	55	30	929	R 24	-	10,120	-	21,381	-		
1994	21	0	21	52	499	4	186	76	2	766	R 24	-	10,482	-	R 21,873	-		
1995	25	0	25	53	608	6	259	74	12	959	R 24	-	10,645	-	R 22,177	-		
1996	51	0	51	57	562	5	308	99	2	976	R 26	-	11,388	-	R 23,700	-		
1997	2	0	2	41	501	28	308	90	0	927	22	-	12,043	-	25,010	-		
Trillion Btu																		
1960	0.9	0.0	0.9	42.6	0.7	0.5	2.4	0.9	0.3	4.8	R 0.1	0.0	5.9	R 54.3	14.7	68.9		
1965	0.2	0.0	0.2	38.3	0.6	2.1	2.8	1.1	0.1	6.7	(s)	0.0	8.9	R 54.2	21.2	75.3		
1970	0.1	0.0	0.1	52.5	0.7	0.2	3.2	1.1	0.2	5.4	(s)	0.0	13.5	R 71.7	32.8	R 104.5		
1975	0.0	0.0	0.0	50.8	1.2	0.1	3.0	1.4	0.2	5.9	(s)	0.0	19.2	R 75.9	46.2	122.1		
1980	0.1	0.0	0.1	58.5	2.1	0.1	1.4	1.5	0.0	5.0	R 0.3	0.0	23.2	R 87.0	56.5	R 143.5		
1985	(s)	0.0	(s)	56.5	4.1	0.1	0.9	0.9	0.0	6.0	NA	0.0	27.9	90.4	65.5	155.9		
1986	(s)	0.0	(s)	54.9	2.0	0.1	0.8	0.9	0.1	3.8	NA	0.0	28.5	87.3	65.6	152.9		
1987	(s)	0.0	(s)	56.2	1.6	0.1	0.8	1.0	(s)	3.5	NA	0.0	29.2	88.9	66.6	155.5		
1988	(s)	(s)	(s)	60.2	2.2	0.1	0.9	0.9	(s)	4.1	NA	0.0	30.7	95.1	69.4	164.5		
1989	0.1	0.0	0.1	58.2	1.9	0.1	0.9	0.8	0.1	3.8	NA	^e (s)	31.1	93.2	R 70.0	163.2		
1990	(s)	0.0	(s)	56.0	1.6	(s)	0.8	0.9	0.2	3.5	NA	(s)	32.6	92.1	71.2	163.3		
1991	(s)	(s)	(s)	59.2	2.1	(s)	0.8	0.7	(s)	3.7	NA	(s)	33.9	96.8	73.8	170.6		
1992	(s)	0.0	(s)	53.3	2.9	(s)	0.7	0.6	0.1	4.3	NA	0.1	33.3	R 91.0	71.0	R 162.0		
1993	0.3	0.0	0.3	55.3	3.8	(s)	0.7	0.3	0.2	5.0	R 0.5	0.1	34.5	R 95.7	73.0	R 168.7		
1994	0.5	0.0	0.5	52.2	2.9	(s)	0.7	0.4	(s)	4.0	R 0.5	0.1	35.8	R 93.1	74.6	R 167.7		
1995	0.6	0.0	0.6	53.3	3.5	(s)	0.9	0.4	0.1	5.0	R 0.5	0.1	36.3	R 95.8	75.7	R 171.5		
1996	1.2	0.0	1.2	57.1	3.3	(s)	1.1	0.5	(s)	4.9	R 0.5	0.1	38.9	R 102.8	80.9	R 183.7		
1997	(s)	0.0	(s)	41.3	2.9	0.2	1.1	0.5	0.0	4.7	0.4	0.2	41.1	87.7	85.3	173.1		

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^d Small amounts of solar energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

-=Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 116. Industrial Energy Consumption Estimates, Selected Years 1960-1997, Kansas

Year	Coal	Natural Gas ^a	Petroleum										Hydro-electric Power ^b	Wood and Waste	Other ^{b,d}	Electricity ^b	Electrical System Energy Losses ^e	Total
			Asphalt and Road Oil ^b	Distillate Fuel ^b	Kerosene ^b	LPG ^b	Lubricants ^b	Motor Gasoline	Residual Fuel ^b	Other ^{b,c}	Total	Million kWh	Million kWh	Net Energy	Million kWh	Million kWh		
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels										Other ^{b,d}	Million kWh	Net Energy	Million kWh	Million kWh	
1960	175	121	2,198	1,405	306	1,321	230	4,557	1,924	6,577	18,518	0	-	-	2,932	-	7,293	-
1965	148	155	3,061	1,553	160	1,530	303	3,535	755	7,119	18,017	0	-	-	3,902	-	9,318	-
1970	103	184	2,188	2,515	157	1,985	207	2,777	701	7,355	17,886	0	-	-	4,548	-	11,022	-
1975	134	152	2,162	3,532	23	3,125	253	2,406	2,178	8,535	22,214	0	-	-	6,214	-	14,990	-
1980	331	191	3,019	3,476	477	5,844	408	1,198	1,004	8,734	24,159	0	-	-	7,845	-	19,076	-
1985	363	161	1,700	3,908	20	22,687	371	1,064	66	5,908	35,724	0	-	-	7,167	-	16,839	-
1986	261	139	2,657	4,575	47	15,093	363	929	464	6,075	30,202	0	-	-	7,128	-	16,396	-
1987	252	158	2,614	4,297	38	14,490	410	978	327	6,524	29,678	0	-	-	7,266	-	16,603	-
1988	208	154	4,378	4,459	12	17,201	396	846	689	7,687	35,667	0	-	-	7,708	-	17,425	-
1989	183	144	3,109	3,924	22	16,996	406	837	306	7,763	33,362	f NA	-	-	7,797	-	R 17,519	-
1990	157	158	3,875	3,912	10	14,032	418	765	184	7,870	31,064	NA	-	-	8,087	-	17,688	-
1991	148	168	3,721	4,580	11	11,649	374	755	118	6,069	27,276	NA	-	-	8,284	-	R 18,033	-
1992	158	175	3,715	4,546	15	15,448	381	675	157	6,695	31,631	NA	-	-	8,451	-	18,050	-
1993	137	196	3,635	5,103	10	6,885	388	892	303	5,658	22,873	NA	-	-	8,702	-	18,386	-
1994	137	233	4,741	5,387	6	6,364	405	943	175	6,218	24,240	NA	-	-	9,001	-	R 18,784	-
1995	138	177	3,911	5,207	10	3,140	398	995	19	5,971	19,651	NA	-	-	9,356	-	R 19,491	-
1996	154	159	3,581	4,892	13	8,054	387	1,021	135	6,417	24,499	NA	-	-	9,231	-	R 19,211	-
1997	137	159	2,115	5,580	19	8,158	408	1,055	171	6,454	23,960	NA	-	-	9,365	-	19,449	-
Trillion Btu																		
1960	4.0	125.7	14.6	8.2	1.7	5.3	1.4	23.9	12.1	39.5	106.7	0.0	R 0.7	0.0	10.0	R 247.0	24.9	R 271.9
1965	3.3	154.3	20.3	9.0	0.9	6.1	1.8	18.6	4.7	42.7	104.2	0.0	R 1.3	0.0	13.3	R 276.5	31.8	R 308.2
1970	2.2	184.1	14.5	14.7	0.9	7.5	1.3	14.6	4.4	43.9	101.7	0.0	R 2.0	0.0	15.5	R 305.6	37.6	R 343.2
1975	2.7	148.8	14.3	20.6	0.1	11.6	1.5	12.6	13.7	51.0	125.5	0.0	R 3.9	0.0	21.2	R 302.1	51.1	R 353.3
1980	7.1	189.7	20.0	20.2	2.7	21.5	2.5	6.3	6.3	52.0	131.5	0.0	R 0.1	0.0	26.8	R 355.2	65.1	R 420.3
1985	7.8	161.3	11.3	22.8	0.1	81.7	2.3	5.6	0.4	35.3	159.5	0.0	R 0.1	0.0	24.5	R 353.1	57.5	R 410.6
1986	5.6	136.9	17.6	26.6	0.3	54.9	2.2	4.9	2.9	36.7	146.2	0.0	R 3.6	0.0	24.3	R 316.7	55.9	R 372.6
1987	5.5	165.6	17.3	25.0	0.2	53.0	2.5	5.1	2.1	38.8	144.1	0.0	R 3.6	0.0	24.8	R 343.6	56.6	R 400.2
1988	4.6	151.8	29.1	26.0	0.1	62.8	2.4	4.4	4.3	45.7	174.7	0.0	R 3.7	0.0	26.3	R 361.2	59.5	R 420.6
1989	4.1	143.3	20.6	22.9	0.1	62.6	2.5	4.4	1.9	45.8	160.8	R f 0.1	R 13.2	f 0.0	26.6	R f 338.0	59.8	R f 397.8
1990	3.8	157.8	25.7	22.8	0.1	50.9	2.5	4.0	1.2	46.4	153.5	0.1	R 2.4	0.0	27.6	R 345.2	60.4	R 405.6
1991	3.6	170.0	24.7	26.7	0.1	42.1	2.3	4.0	0.7	36.3	136.8	0.1	R 2.5	0.0	28.3	R 341.3	61.5	R 402.8
1992	3.9	172.4	24.7	26.5	0.1	56.0	2.3	3.5	1.0	39.7	153.7	0.1	R 2.6	0.0	28.8	R 361.5	61.6	R 423.1
1993	3.2	193.3	24.1	29.7	0.1	24.8	2.4	4.7	1.9	33.6	121.3	0.1	R 2.6	0.0	29.7	R 350.2	62.7	R 412.9
1994	3.3	232.4	31.5	31.4	(s)	23.1	2.5	5.0	1.1	36.9	131.4	0.1	R 5.4	0.0	30.7	R 403.3	64.1	R 467.4
1995	3.3	177.5	26.0	30.3	0.1	11.4	2.4	5.2	0.1	35.5	111.0	0.1	R 5.6	0.0	31.9	R 329.4	66.5	R 395.9
1996	3.9	159.1	23.8	28.5	0.1	29.1	2.3	5.4	0.8	38.0	127.9	0.1	R 5.8	0.0	31.5	R 328.4	R 65.5	R 394.0
1997	3.4	159.2	14.0	32.5	0.1	29.5	2.5	5.5	1.1	38.2	123.4	0.1	6.0	0.0	32.0	324.1	66.4	390.4

^a Includes supplemental gaseous fuels.^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.^c "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."^d "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.^e Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

kWh=kilowatthours. - =Not applicable. NA=Not available.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 117. Transportation Energy Consumption Estimates, Selected Years 1960-1997, Kansas

Year	Coal ^a	Natural Gas ^b	Petroleum									Ethanol ^c	Electricity ^a	Net Energy	Electrical System Energy Losses ^d	Total ^c	
			Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	LPG ^a	Lubricants ^a	Motor Gasoline	Residual Fuel ^a	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Gallons	Million Kilowatthours	Million Kilowatthours	Million Kilowatthours	Million Kilowatthours		
1960	3	43	170	3,056	952	215	507	18,976	190	24,065	0	0	—	0	0	—	
1965	(s)	50	493	3,473	1,053	295	467	21,786	137	27,704	0	0	—	0	0	—	
1970	(s)	73	326	4,691	1,561	348	448	25,857	8	33,238	0	0	—	0	0	—	
1975	(s)	69	177	5,898	1,310	364	520	29,331	17	37,615	0	0	—	0	0	—	
1980	0	52	221	10,397	2,466	110	603	28,107	2	41,906	0	0	—	0	0	—	
1985	0	38	137	10,173	4,424	95	549	26,968	0	42,347	0	0	—	0	0	—	
1986	0	32	162	9,204	7,038	101	537	27,350	(s)	44,391	0	0	—	0	0	—	
1987	0	31	121	11,992	4,285	111	607	27,956	0	45,071	0	0	—	0	0	—	
1988	0	42	148	11,556	4,176	140	585	29,807	0	46,411	0	0	—	0	0	—	
1989	0	43	156	11,304	3,833	185	600	28,862	0	44,940	R e 4,931	0	0	—	0	—	
1990	0	41	136	12,213	3,701	142	618	27,700	0	44,509	5,695	0	—	0	0	—	
1991	0	33	124	10,595	3,296	108	553	27,162	0	41,838	4,515	0	—	0	0	—	
1992	0	29	142	9,975	4,164	99	563	27,037	0	41,981	5,487	0	—	0	0	—	
1993	0	33	151	10,367	3,617	100	574	27,533	0	42,341	6,123	0	—	0	0	—	
1994	0	32	142	9,727	1,981	151	600	28,054	0	40,655	5,720	0	—	0	0	—	
1995	0	35	146	13,466	2,414	56	589	28,333	0	45,004	4,535	0	—	0	0	—	
1996	0	38	177	11,317	2,009	22	572	29,807	0	43,904	2,799	0	—	0	0	—	
1997	0	39	247	10,860	2,130	20	604	29,551	0	43,412	2,896	0	—	0	0	—	
Trillion Btu																	
1960	0.1	44.3	0.9	17.8	5.1	0.9	3.1	99.7	1.2	128.6	0.0	0.0	172.9	0.0	0	172.9	
1965	(s)	49.5	2.5	20.2	5.7	1.2	2.8	114.4	0.9	147.7	0.0	0.0	197.2	0.0	0	197.2	
1970	(s)	73.2	1.6	27.3	8.6	1.3	2.7	135.8	0.1	177.5	0.0	0.0	250.7	0.0	0	250.7	
1975	(s)	68.0	0.9	34.4	7.2	1.4	3.2	154.1	0.1	201.1	0.0	0.0	269.1	0.0	0	269.1	
1980	0.0	52.0	1.1	60.6	13.8	0.4	3.7	147.6	(s)	227.2	0.0	0.0	279.2	0.0	0	279.2	
1985	0.0	38.1	0.7	59.3	24.8	0.3	3.3	141.7	0.0	230.1	0.0	0.0	268.2	0.0	0	268.2	
1986	0.0	32.0	0.8	53.6	39.7	0.4	3.3	143.7	(s)	241.4	0.0	0.0	273.4	0.0	0	273.4	
1987	0.0	32.3	0.6	69.9	24.1	0.4	3.7	146.9	0.0	245.5	0.0	0.0	277.8	0.0	0	277.8	
1988	0.0	41.8	0.7	67.3	23.4	0.5	3.5	156.6	0.0	252.1	R e 0.0	0.0	294.0	0.0	0	294.0	
1989	0.0	43.0	0.8	65.8	21.5	0.7	3.6	151.6	0.0	244.0	R e 0.4	0.0	287.0	0.0	0	287.0	
1990	0.0	40.6	0.7	71.1	20.7	0.5	3.7	145.5	0.0	242.3	0.4	0.0	282.9	0.0	0	282.9	
1991	0.0	33.3	0.6	61.7	18.3	0.4	3.4	142.7	0.0	227.1	0.3	0.0	260.4	0.0	0	260.4	
1992	0.0	28.8	0.7	58.1	23.2	0.4	3.4	142.0	0.0	227.8	0.4	0.0	256.7	0.0	0	256.7	
1993	0.0	33.0	0.8	60.4	20.2	0.4	3.5	144.6	0.0	229.8	0.5	0.0	262.8	0.0	0	262.8	
1994	0.0	31.7	0.7	56.7	11.0	0.5	3.6	147.4	0.0	219.9	0.4	0.0	251.7	0.0	0	251.7	
1995	0.0	34.8	0.7	78.4	13.7	0.2	3.6	148.8	0.0	245.5	0.3	0.0	280.2	0.0	0	280.2	
1996	0.0	38.2	0.9	65.9	11.4	0.1	3.5	156.6	0.0	238.3	0.2	0.0	276.5	0.0	0	276.5	
1997	0.0	39.2	1.2	63.3	12.1	0.1	3.7	155.2	0.0	235.6	0.2	0.0	274.7	0.0	0	274.7	

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

^c Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector and is included only once in the total.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 118. Estimates of Energy Input at Electric Utilities, Selected Years 1960-1997, Kansas

Year	Coal			Natural Gas ^a	Petroleum				Nuclear Electric Power	Hydroelectric Power ^e	Wood and Waste	Geothermal Energy	Other ^{b,f}	Total ^g
	Bituminous Coal and Lignite	Anthracite	Total		Heavy Oil ^{b,c}	Light Oil ^{b,d}	Petroleum Coke ^b	Total						
	Thousand Short Tons			Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	435	0	435	82	241	110	0	351	0	20	0	0	0	—
1965	478	0	478	113	156	71	0	226	0	13	0	0	0	—
1970	344	0	344	168	385	175	0	560	0	7	0	0	0	—
1975	2,983	0	2,983	128	4,134	1,539	4	5,676	0	5	0	0	0	—
1980	10,034	0	10,034	101	492	382	0	875	0	8	0	0	0	—
1985	14,351	0	14,351	21	20	195	0	215	3,856	9	0	0	(s)	—
1986	14,097	0	14,097	15	15	174	0	188	6,959	8	0	0	(s)	—
1987	14,942	0	14,942	16	25	131	0	156	6,471	9	0	0	(s)	—
1988	14,742	0	14,742	19	121	161	0	283	6,650	12	0	0	(s)	—
1989	14,774	0	14,774	19	54	191	0	246	9,709	10	0	0	(s)	—
1990	15,018	0	15,018	27	22	130	0	152	7,874	12	0	0	(s)	—
1991	14,732	0	14,732	36	4	153	0	156	5,859	9	0	0	(s)	—
1992	14,068	0	14,068	14	2	103	0	104	8,491	0	0	0	(s)	—
1993	17,226	0	17,226	22	40	126	0	166	7,900	0	0	0	(s)	—
1994	16,989	0	16,989	27	12	129	0	142	8,529	0	0	0	(s)	—
1995	16,345	0	16,345	28	1	150	0	151	10,062	0	0	0	(s)	—
1996	18,852	0	18,852	23	155	176	0	331	8,205	0	0	0	0	—
1997	17,534	0	17,534	26	89	163	0	252	8,430	0	0	0	0	—
Trillion Btu														
1960	10.3	0.0	10.3	85.1	1.5	0.6	0.0	2.2	0.0	0.2	0.0	0.0	0.0	97.8
1965	11.6	0.0	11.6	112.4	1.0	0.4	0.0	1.4	0.0	0.1	0.0	0.0	0.0	125.5
1970	8.3	0.0	8.3	167.5	2.4	1.0	0.0	3.4	0.0	0.1	0.0	0.0	0.0	179.4
1975	59.5	0.0	59.5	126.7	26.0	9.0	(s)	35.0	0.0	(s)	0.0	0.0	0.0	221.2
1980	184.3	0.0	184.3	97.0	3.1	2.2	0.0	5.3	0.0	0.1	0.0	0.0	0.0	286.7
1985	251.7	0.0	251.7	20.5	0.1	1.1	0.0	1.3	41.7	0.1	0.0	0.0	(s)	315.2
1986	246.1	0.0	246.1	14.6	0.1	1.0	0.0	1.1	75.1	0.1	0.0	0.0	(s)	337.0
1987	261.9	0.0	261.9	15.9	0.2	0.8	0.0	0.9	69.7	0.1	0.0	0.0	(s)	348.5
1988	264.7	0.0	264.7	18.8	0.8	0.9	0.0	1.7	71.4	0.1	0.0	0.0	(s)	356.7
1989	262.3	0.0	262.3	18.6	0.3	1.1	0.0	1.5	104.1	0.1	0.0	0.0	(s)	386.5
1990	268.8	0.0	268.8	26.9	0.1	0.8	0.0	0.9	84.1	0.1	0.0	0.0	(s)	380.8
1991	265.1	0.0	265.1	35.0	(s)	0.9	0.0	0.9	62.9	0.1	0.0	0.0	(s)	364.0
1992	250.4	0.0	250.4	13.6	(s)	0.6	0.0	0.6	90.7	0.0	0.0	0.0	(s)	355.2
1993	298.1	0.0	298.1	21.1	0.3	0.7	0.0	1.0	84.4	0.0	0.0	0.0	(s)	404.6
1994	295.9	0.0	295.9	26.8	0.1	0.8	0.0	0.8	91.1	0.0	0.0	0.0	(s)	414.6
1995	285.4	0.0	285.4	27.4	(s)	0.9	0.0	0.9	107.2	0.0	0.0	0.0	(s)	420.9
1996	332.8	0.0	332.8	22.5	1.0	1.0	0.0	2.0	87.2	0.0	0.0	0.0	0.0	444.5
1997	307.4	0.0	307.4	25.3	0.6	1.0	0.0	1.5	89.6	0.0	0.0	0.0	0.0	423.7

^a Includes supplemental gaseous fuels.^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.^c Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.^d Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.^e If applicable, through 1989, includes all net imports of electricity, and, from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.^f "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.^g If applicable, from 1990, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. See data in appendix Table A8.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.